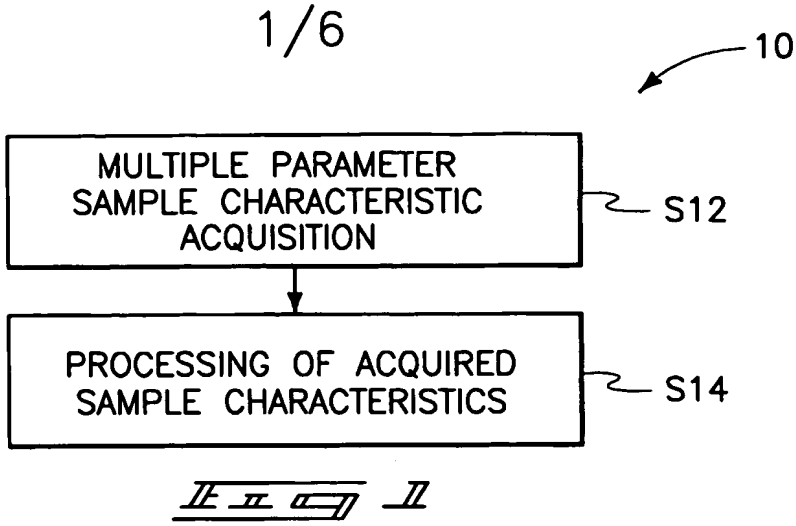

10
MULTIPLE PARAMETER SAMPLE CHARACTERISTIC ACQUISITION
S12
PROCESSING OF ACQUIRED SAMPLE CHARACTERISTICS
S14

Fig 1

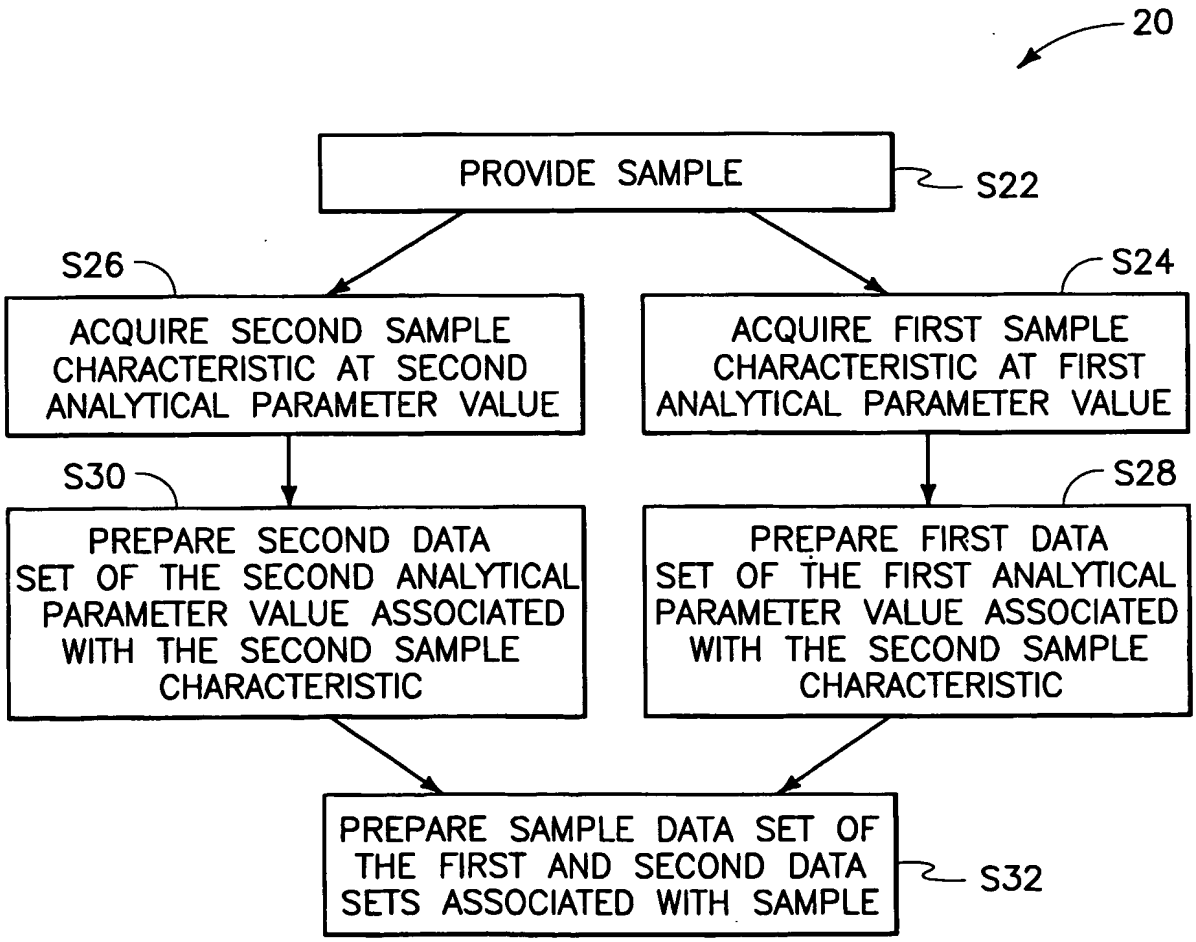

20
PROVIDE SAMPLE
S22
S26
ACQUIRE SECOND SAMPLE CHARACTERISTIC AT SECOND ANALYTICAL PARAMETER VALUE
S24
ACQUIRE FIRST SAMPLE CHARACTERISTIC AT FIRST ANALYTICAL PARAMETER VALUE
S30
PREPARE SECOND DATA SET OF THE SECOND ANALYTICAL PARAMETER VALUE ASSOCIATED WITH THE SECOND SAMPLE CHARACTERISTIC
S28
PREPARE FIRST DATA SET OF THE FIRST ANALYTICAL PARAMETER VALUE ASSOCIATED WITH THE SECOND SAMPLE CHARACTERISTIC
PREPARE SAMPLE DATA SET OF THE FIRST AND SECOND DATA SETS ASSOCIATED WITH SAMPLE
S32

Fig 2

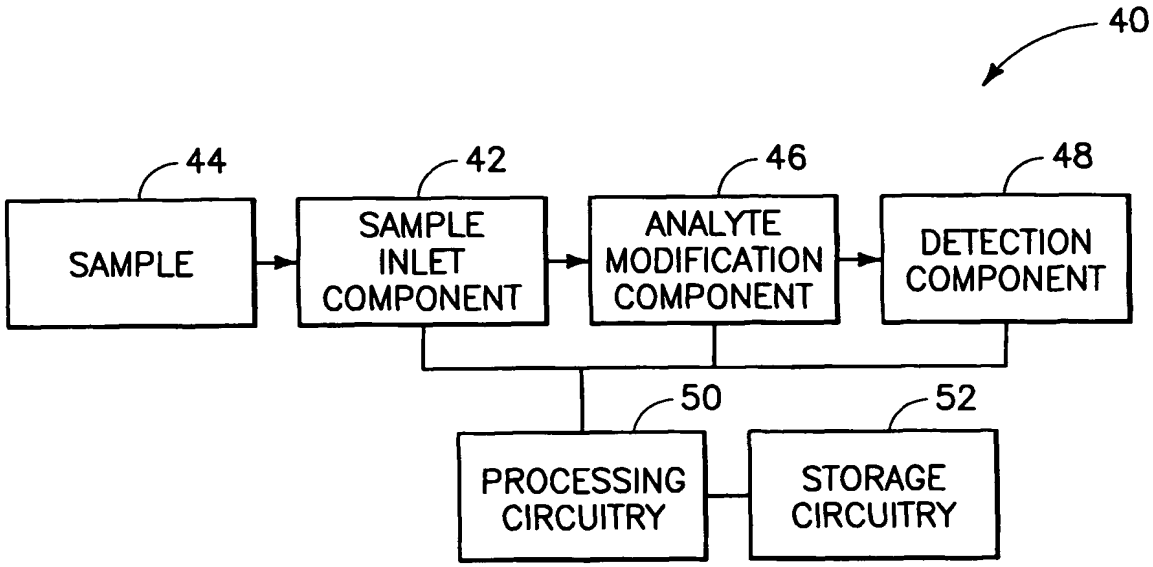


Fig 3A

60

SAMPLE DATA SET

	DATA SET	IONIZATION ENERGY	TOTAL ION CURRENT	
62 →	1	10eV	80	
64 →	2	70eV	500	
	3	•••	•••	
	4	•••	•••	
	•••	•••	•••	

Fig 3B

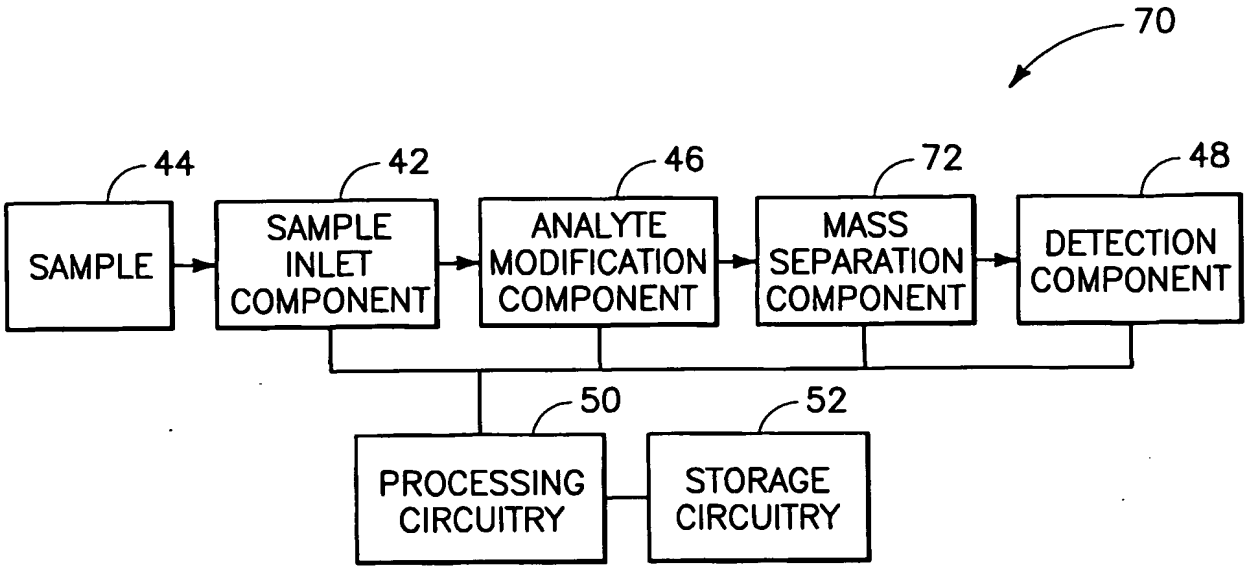


Fig 4A

80

SAMPLE DATA SET

	DATA SET	IONIZATION ENERGY	MASS SEPARATION RANGE	MASS SPECTRA
82 →	1	10eV	5–100	
84 →	2	70eV	5–100	
	3	•••	•••	
	4	•••	•••	
	•••	•••	•••	

Fig 4B

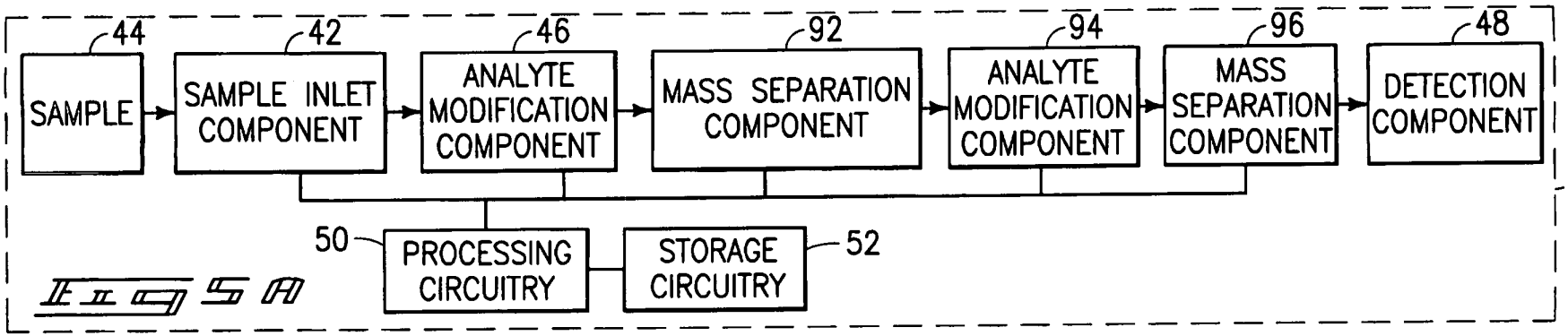


Fig 5A

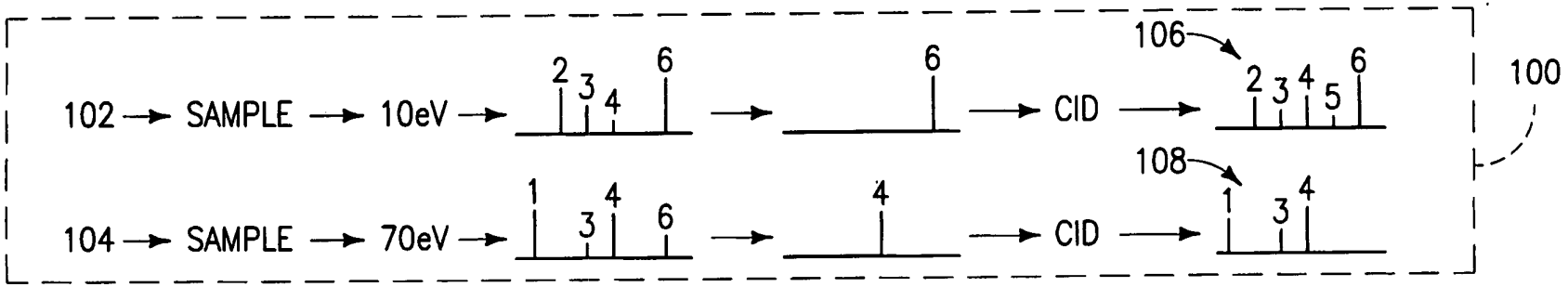


Fig 5B

	DATA SET	FIRST IONIZATION ENERGY	FIRST MASS SEPARATION PARAMETER		SECOND IONIZATION COMPONENT	SECOND MASS SEPARATION PARAMETER	MASS SPECTRA
			RANGE	ISOLATION		RANGE	
112 →	1	10eV	1–6	6	CID	1–6	2 3 4 6
114 →	2	70eV	1–6	4	CID	1–6	1 3 4
	3	•••	•••	•••	•••	•••	•••

110

Fig 5C

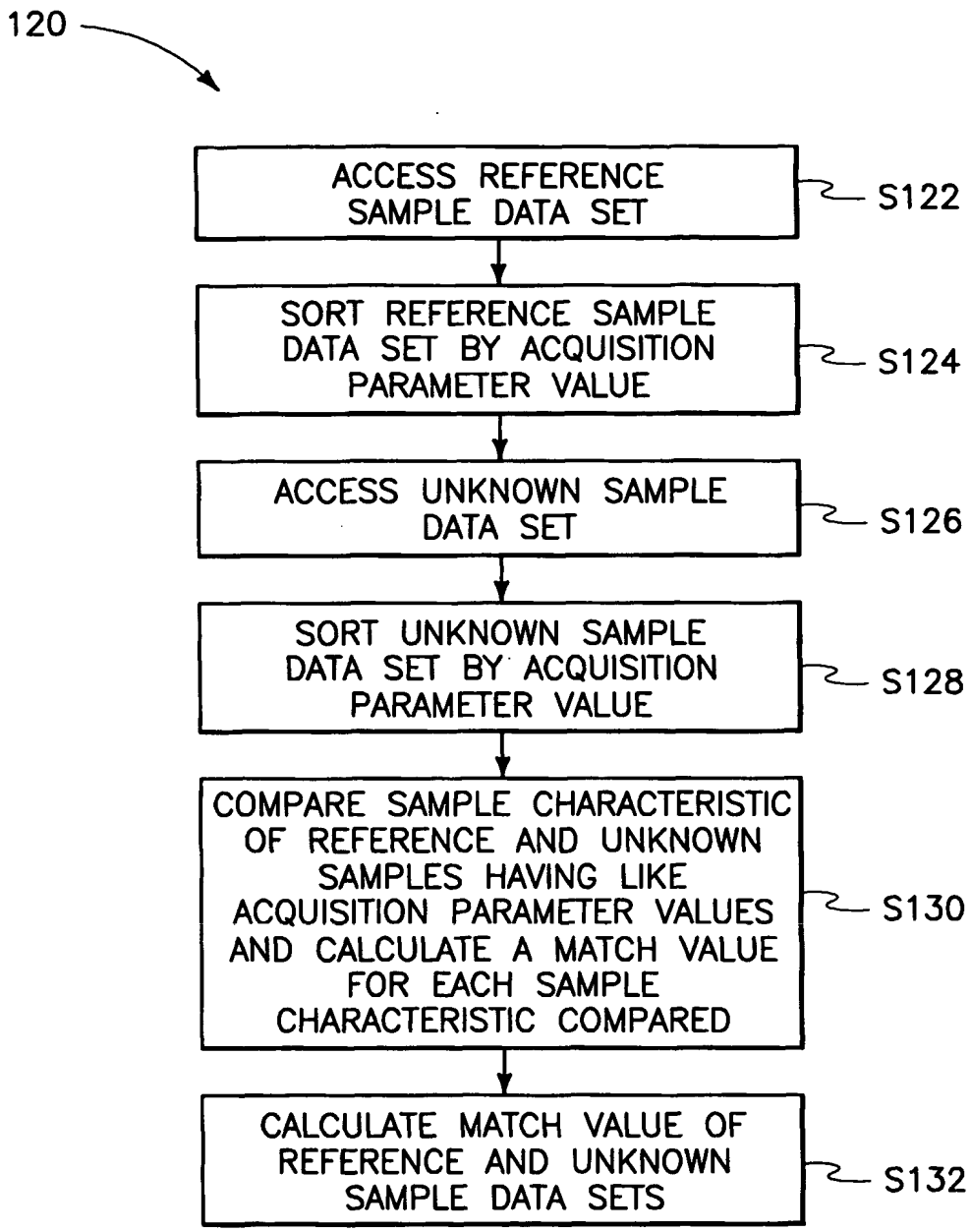
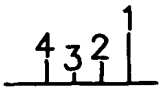
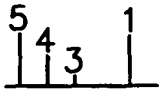

120
ACCESS REFERENCE SAMPLE DATA SET
S122
SORT REFERENCE SAMPLE DATA SET BY ACQUISITION PARAMETER VALUE
S124
ACCESS UNKNOWN SAMPLE DATA SET
S126
SORT UNKNOWN SAMPLE DATA SET BY ACQUISITION PARAMETER VALUE
S128
COMPARE SAMPLE CHARACTERISTIC OF REFERENCE AND UNKNOWN SAMPLES HAVING LIKE ACQUISITION PARAMETER VALUES AND CALCULATE A MATCH VALUE FOR EACH SAMPLE CHARACTERISTIC COMPARED
S130
CALCULATE MATCH VALUE OF REFERENCE AND UNKNOWN SAMPLE DATA SETS
S132

Fig 6

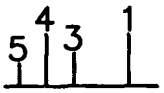
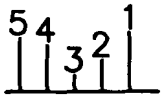
134

ACCESSED REFERENCE SAMPLE DATA

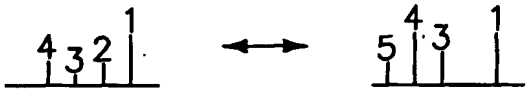
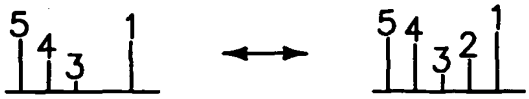
	DATA SET	ACQUISITION PARAMETER VALUE	SAMPLE CHARACTERISTIC
136	1	10eV	
138	2	70eV	

140

ACCESSED UNKNOWN SAMPLE DATA

	DATA SET	ACQUISITION PARAMETER VALUE	SAMPLE CHARACTERISTIC
142	1	10eV	
144	2	70eV	

COMPARED SAMPLE DATA HAVING LIKE ACQUISITION PARAMETER VALUES.

	MATCH VALUE
	79
	69

74

Fig 7